## PROJECT DESCRIPTION GENERAL THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 194 (WOODSBORD PIKE) AND GLADE BOULEVARD IN FREDERICK COUNTY, MARYLAND. MD 194 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. INTERSECTION OPERATION THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 194 APPROACHES OPERATING CONCURRENTLY AND THE GLADE BOULEVARD APPROACH OPERATING ALONE, EASTBOUND APPROACH (COMMERCIAL ENTRANCE) IS CLOSED TO TRAFFIC. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR THE SOUTHBOUND MD 194 APPROACH. AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE SOUTH LEG OF MD 194. TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS WEST LEG - MD 194 (WOODSBORO PIKE) AND GLADE BOULEVARD WAIT: "WAIT TO CROSS WOODSBORD AT GLADE. CROSSWALK ANGLES RIGHT. WAIT."\*\* WALK: RAPID TICK MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10' \*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY. CONTROLLER REQUIREMENTS INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, VIDEO INTERFACE EQUIPMENT (1-8 CAMERAS) AND INTERSECTION MONITOR WITH BATTERY BACKUP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "S" BASE MOUNTED CABINET. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER. MAINTENANCE OF TRAFFIC THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER. STANDARD NO. MD-104.02-09 (FLAGGING OPERATION) STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION) PROJECT CONTACTS THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS: MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER - TRAFFIC MS. ANDREA ABEND DISTRICT UTILITY ENGINEER PHONE: (301) 624-8115/8116 PHONE: (301) 624-8140/8141 MS. SUSAN PALMER ASSISTANT DISTRICT ENGINEER - MAINTENANCE MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630 PHONE: (301) 624-8105/8106 A,B,C,D,E,F,K,L,N, WIRING KEY 0,P,Q,R,S,T,U,V---7-CONDUCTOR ELECTRICAL PT Q,R,S CABLE (NO. 14 A.W.G.) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) A,B,H,N,0,P K 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) M > CABLE (NO. 12 A.W.G.) -→ TRAY CABLE C,D,F,L,M,P,T,U,V-VIDEO CAMERA DETECTION O | LEAD-IN CABLE STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 A.W.G.)

ML - MICROLOOP PROBE SET

PT - PROPOSED UNDERGROUND

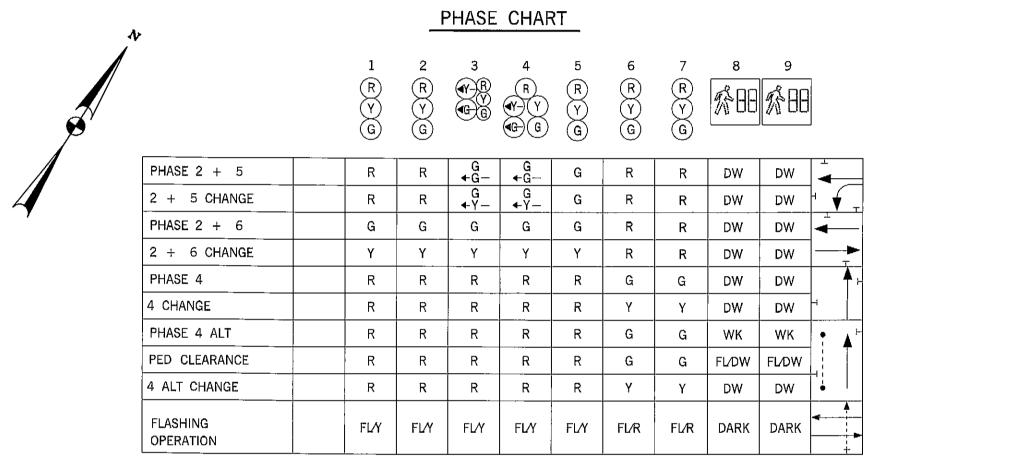
PE - PROPOSED UNDERGROUND

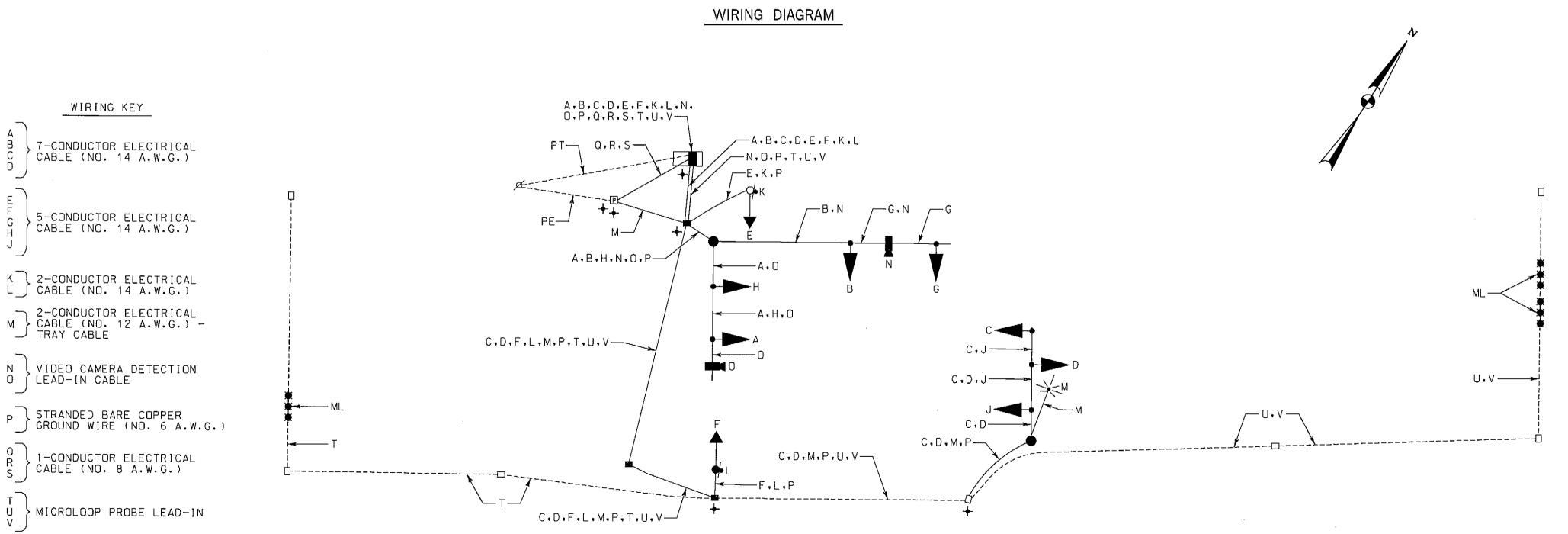
TELEPHONE SERVICE

ELECTRICAL SERVICE

- 3/4 IN. X 10 FT. GROUND ROD

		EQUIPMENT LIST "A"
A. EQUIPMENT	TO BE SUPPLIED BY T	ΓΗΕ SHA
ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED ASC III CONTROLLER
9000	1 EACH	NEMA SIZE "S" BASE MOUNTED CABINET WITH INTERSECTION MONITOR WITH VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS AND ONE (1) FOUR-CHANNEL LOOP DETECTOR APMPLIFIER
9016	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
9571	68 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 2 EACH D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT
		- 1 EACH M1-5(4) SIGN (78 IN. × 36 IN.) - MAST ARM MOUNT
		- 1 EACH R3-5(L) SIGN (30 IN. x 36 IN.) - MAST ARM MOUNT
		- 2 EACH R3-5(R) SIGN (30 IN, $\times$ 36 IN,) - MAST ARM MOUNT
		- 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS WOODSBORO PIKE"
		EQUIPMENT LIST "C"
C FOLLIP	PMENT TO BE REMOVED A	AND DETURNED TO CITA
CABIN	DRCES SHALL REMOVE THE CABINET AND POPERTY OF THE CONTR	THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME RACTOR.
		PHASE CHART
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ITEM NO. QUANTITY DESCRIPTION 1001 2 EACH MAINTENANCE OF TRAFFIC 2001 1 C.Y. CLASS 2 EXCAVATION 2002 2 C.Y. TEST PIT EXCAVATION 5003 200 L.F. REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS -ANY WIDTH 5004 130 L.F. 12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS 6001 90 L.F. STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH 6002 340 S.F. 5 INCH CONCRETE SIDEWALK 6003 34 S.F. DETECTABLE WARNING SURFACES FOR CURB RAMPS 8001 22 EACH 12 INCH LED SIGNAL HEAD SECTION 8002 1 EACH 2 WIRE CENTRAL CONTROL UNIT 3 EACH 8 INCH LED SIGNAL HEAD SECTION 8005 1 EACH ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER 8007 1 EACH ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE 8008 2 EACH AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS 8009 1 EACH BREAKAWAY PEDESTAL POLE (ANY SIZE) 8015 2 EACH LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS 8022 3 EACH NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT 8023 1 EACH REM & DISPOSE MAT & EQUIP PER ASSIGN TWIN MAST ARM POLE & 50 FT/70 FT MAST ARMS ANY 'T' DIMENSION 8026 2 EACH 8028 2 EACH VIDEO DETECTION CAMERA & CABLE UP TO 500 FT 8034 300 L.F. ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TO 8036 70 L.F. SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED 8038 SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED 225 L.F. 8040 INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING 68 S.F. ALL HARDWARE) 8042 330 L.F. NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 8045 130 L.F. ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG - THHN/THWN 8046 2 EACH FURNISH AND INSTALL ELECTRICAL HANDHOLE 8051 3 EACH CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE 8053 215 L.F. ELECTRICAL CABLE - 2 CONDUCTOR (NQ. 14 AWG) 8055 285 L.F. ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) 8056 825 L.F. ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) 8062 1 EACH INSTALL CONTROLLER AND CABINET - BASE MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

TOD NO: XX650-20 SHA NO: FR122B53 MD 194 @ Glade Boulevard



TS NO. 2064E

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

194 (Woodsboro Pike) and Glade Bl

OF 3

MD 194 (Woodsboro Pike) and Glade Blvd.

Walkersville, Maryland



& ASSOCIATES, LLP

801 South Caroline Street, Baltimore, Maryland 21231

GENERAL INFORMATION SHEET

SCALE NONE DATE 5082012 CONTRACT NO. XX6505185

DESIGNED BY S. Bloss

DRAWN BY S. Bloss

CHECKED BY N. Leary / Whole L.

F.A.P. NO.

DRAWING TSP - 3

COUNTY Frederick

LOGMILE 10019402.83

Whele Tims No. L270

TOD NO.

SHEET NO. 3 OF 3

PLOTTED: May 16, 2012 FILE: N:\31669-195\CADD\pSG-N003\_L270.dgn